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Setup Procedures

1) Select a group that contains the parameters to be changed.
2) Scan the "Enter Group" label first, the Reader will sound 3 beeps to indicate that Setup has begun.
3) Scan the label representing the parameter to be changed.
4) Scan the labels representing the parameter values.
5) Repeat the previous two steps, if necessary, to change the parameters in the same group.
6) Scan the "Exit" label to end Setup for the group currently selected. The Reader will sound 2 beeps.
7) Repeat the Setup procedure for other groups that require parameters to be modified, if necessary.

Batch Setup

If more than one scanner needs to be configured, you can duplicate the settings of the Master Scanner to the others. This is done by producing a set of custom setup labels (derived from the master scanner) and then scanning these labels to configure the other scanners.

The following barcode label is "Dump Settings". First, open a text editor (such as Notepad, Word, etc.), and then scan Dump Settings. The settings of the scanner will dump to the screen as one or several ASCII string(s). You may use any barcode printing software, select Code 39 symbology, and use the output string(s) to generate the barcode labels. You can then scan these batch setup labels to duplicate the settings.

Dump Settings

Scanner Configuration Manager

Scanner Configuration Manager is a utility program to configure scanner settings on a computer using the Windows 95/98 operating system. Use

the program to define the settings and then download the parameters to the scanner. Download the program from our web site at www.unitech-adc.com.

RS232 Reader

The RS232 reader can be setup with any modem communication utility - such as Windows' HyperTerminal. To setup the reader, start your comm. utility and set the default parameters to 9600-baud rate, 8 bits, and no parity. Once communication is established, press both of the "**Shift**" keys on your computer keyboard and you will enter the setup screen. Follow the menu promptings to change the setup parameters and save the settings.

1 Device Selection and Default

Enter Group 1

Group Default

0

1

2

3

4

5

6

7

8

9

Factory Default

Exit

Keyboard Wedge Reader	
Device ID	Device Type
00	IBM PC/XT
01	**IBM PC/AT, PS/2 model 40, 60, 80 etc.**
02	IBM PS/2 Model 25, 56, 70, 90
06	Keyboardless Wedge (Notebook Computer)
03	Macintosh ADB bus
RS-232 Reader	
Device ID	Device Type
04	RS232 Serial Decoder

2 Beep and Delay

Enter Group 2

Group Default

0

1

2

3

4

5

6

7

8

9

Exit

Beep Tone (On Decoding):			A1
0	None	3	High
1	Low	4	Low to High
2	**Medium**	5	High to Low

Inter-Block Delay:			A2
0	**0 ms**	4	500 ms
1	10 ms	5	1 second
2	50 ms	6	3 seconds
3	100 ms	7	5 seconds

Inter-Character Delay:			A3
0	**0 ms**	4	10 ms
1	1 ms	5	30 ms
2	2 ms	6	50 ms
3	5 ms	7	100 ms

3 Keyboard Wedge

Enter Group 3

Group Default

0

1

2

3

4

5

6

7

8

9

Exit

Function Code:			B1
0	Off	**1**	**On**

Upper/Lower Case:			B2
0	**Auto Trace**		Upper Case
1	Lower Case		

Language PC/AT Function Code:	B3
0	**US**
1	UK
2	Swiss
3	Swedish
4	Spanish
5	Norwegian
6	Italian
7	German
8	French
9	Alt Key Mode
:	Danish

4 RS232 Serial Setting

Enter Group 4

Group Default

0

1

2

3

4

5

6

7

8

9

Exit

Baud Rate:			C1
0	300	4	4800
1	600	**5**	**9600**
2	1200	6	19200
3	2400	7	38400
Parity:			C2
0	Even	3	Space
1	Odd	**4**	**None**
2	Mark		
Data Bit:			C3
0	7	**1**	**8**
Handshaking:			C4
0	**Ignore**	2	RTS Enable
1	RTS Power on		Communication
ACK/NAK			C5
0	**Off**	1	On
BCC character:			C6
0	**Off**	1	On
Time Out:			C7
0	**1 second**	2	10 seconds
1	3 seconds	3	Unlimited

5 Scanner

Enter Group 5

Group Default

Exit

Sym-bology	Pre-Defined
UPC-A	A
UPC-E	E
EAN-13	F
EAN-8	FF
I 2 OF 5	I
S 2 OF 5	H
Code 39	M
Codabar	N
Code93	L
Code 128	K
UCC/EAN 128	]Cl
MSI	O
Code 32	T
Delta Code	D
Plessey	P
Label Code	B
China Postal	C

0

1

2

3

4

5

6

7

8

9

Data Format:

Preamble	Code ID	Length	Data
Terminator	Postamble		BCC

Terminator:

D1

0	**Enter (CR/LF)**	2	Field Exit (CR)
1	Return (LF)	3	None

Code ID:

D2

0	**Disable**	1	Enable

Define Code ID:

D3

00	Code 39 Full ASCII	10	S 2 of 5
01	Code 39 Standard	11	MSI Code
02	EAN-13	12	EAN128
03	UPC-A	13	Code 32
04	EAN-8	14	Delta Code
05	UPC-E	15	Label Code
06	I 2 of 5	16	Plessey Code
07	Codabar	17	Code 11
08	Code128	18	China Postal
09	Code 93		

Double verification:

D4

0	**Off**	1~7	On (Verify 1~7 times)

Label Type:

D6

0	**Positive**	1	Positive & Negative

P P

Preamble:
Scan "PP" to program preamble. Scan characters from Full ASCII table to define preamble. Maximum 16 characters. Scan "PP" to end.

O O

Postamble:
Scan "OO" to program preamble. Scan characters from Full ASCII table to define preamble. Maximum 16 characters. Scan "OO" to end.

7 Symbologies(I): Code 39/I 2 of 5/ S2 of 5/Code 32/EAN128

Enter Group 7

Group Default

0

1

2

3

4

5

6

7

8

9

MM Minimum Length

NN Maximum Length

Exit

Code 39:			F1
0/**1**	Disable/**Enable**	**2**/3	**Full ASCII**/Standard
4	Check Digit Calculate and Send		
5	Check Digit Calculate but Not Send		
6	**Check Digit Not Calculate**		
7/**8**	Send/**Not Send** Start & Stop		
0~48	Min length **0** / Max length **48**		

Interleaved 2 of 5:		F2	
0/**1**	Disable/**Enable**		
2/3	**Fix Length On**/Off (by first three reads)		
4	Check Digit Calculate and Send		
5	Check Digit Calculate but Not Send		
6	**Check Digit Not Calculate**		
7	First Digit Suppressed.		
8	Last Digit Not Suppressed.		
9	**Not Suppressed.**		
2~64	Min **10** / Max **64**		
Standard 2 of 5 / China Postal:		F3	
0/1	**Disable**/Enable		
2/3	Fix Length **On**/Off		
4	Check Digit Calculate and Send		
5	Check Digit Calculate but Not Send		
6	**Check Digit Not Calculate**		
1~48	Min **4** / Max **48**		
Code 32(Italian Pharmacy:		F4	
0/1	**Disable**/Enable		
2/3	Leading Character **Send** / No Send		
4/5	Trailing Character **Send** /No Send		
Telepen		F5	
0/1	**Disable**/Enable	**2**/3	**Standard**/Numeric
UCC/**EAN 128:**		F6	
0/**1**	Disable/**Enable**		
2/3	Code ID **Disable**/Enable		

8 Symbologies(II): Code 128 / MSI / Code 93 / Codabar /Label Code

Enter Group 8

Group Default

0

1

2

3

4

5

6

7

8

9

MM Minimum Length

NN Maximum Length

Exit

Code 128:

G1

0/**1**	Disable/**Enable**	1~64	Min **1** / Max **64**

MSI/Plessey code:

G2

0/1	**Disable**/Enable	2/**3**	CD Send / **No Send**

4	**Check Digit Double Module 10**
5	CD Double Module 11 Plus 10
6	CD Single Module 10

1-16	Min **1** / Max **16**

Code 93:

G3

0/**1**	Disable/**Enable**	1~48	Min **1** / Max **48**

Code 11: (Special)

G4

0/1	**Disable**/Enable	2/**3**	One/**Two** CD

4/**5**	CD Send / **No Send**
1-48	Min **1** / Max **48**

Codabar:

G5

0/1	**Disable**/Enable	2/**3**	S & S Send / **No Send**

4	CD Calculate & Send
5	CD Calculate but not Send
6	**CD not Calculate**
7/**8**	CLSI Format On / **Off**
3-48	Min **3** / Max **48**

Label Code IV & V

G6

0/1	**Disable**/Enable	2/**3**	Checksum Send/**No Send**

9 Symbologies(III): UPC/EAN/Delta

Enter Group 9

Group Default

0

1

2

3

4

5

6

7

8

9

Exit

UPC-A:	H 1
0/**1**	Disable/**Enable**
2/3	Leading Digit **Send** / No Send
4/5	CD **Send** / No Send

UPC-E:	H 2
0/**1**	Disable/**Enable**
2/3	Leading Digit **Send** / No Send
4/**5**	CD Send / **No Send**
6/**7**	Zero Expansion On / **Off**
8/9	**Disable**/Enable NSC=1

EAN-13:	H 3
0/**1**	Disable/Enable
2/3	Leading Digit **Send** / No Send
4/5	CD **Send** / No Send
6/**7**	Bookland EAN (ISBN)Enable / **Disable**

EAN-8:	H 4
0/**1**	Disable/**Enable**
2/3	Leading Digit **Send** / No Send
4/5	CD **Send** / No Send

Supplement Code:		H5	
0/1	2 Add-on Code **Off** / On	**2**/3	5 Add-on Code **Off** / On
4	Transmitted if Present	**5**	**Must Present**.
6/7	Space Added / **Not Added**		

Delta Distance Code:	H6
0/1	**Disable**/Enable
2/3	**Check Digit Calculated**/Not Calculated
4/5	**Check Digit Send**/No Send

Function Code for PC

F1 (%VA)

F2 (%VB)

F3 (%VC)

F4 (%VD)

F5 (%VE)

F6 (%VF)

F7 (%VG)

F8 (%VH)

F9 (%VI)

F10 (%VJ)

F11 (%VK)

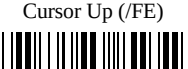
F12 (%VL)

Cursor Right (/FC)

Cursor Left (/FD)

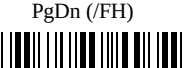
Cursor Up (/FE)

Cursor Down (/FF)

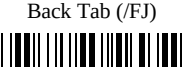

PgUp (/FG)

PgDn (/FH)

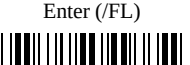
TAB (/FI)


Back Tab (/FJ)

ESC (/FK)


Enter (/FL)

Right Ctrl (/FO)


Right Enter(/FM)

Del (/FX)

Ins (/FW)

Function Code for MAC

F1 (%VA)

F2 (%VB)

F3 (%VC)

F4 (%VD)

F5 (%VE)

F6 (%VF)

F7 (%VG)

F8 (%VH)

F9 (%VI)

F10 (%VJ)

F11 (%VK)

F12 (%VL)

F13 (%VM)

F14 (%VN)

F15 (%VO)

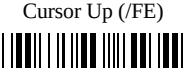
Cursor Left (/FD)

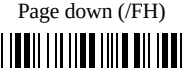
Cursor Right (/FC)

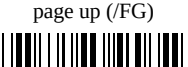
Cursor Down (/FF)

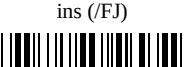
Cursor Up (/FE)

Page down (/FH)


page up (/FG)


ins (/FJ)


Ttab (/FI)


Enter (/FL)

Esc (/FK)

return (/FM)

Option Make (%VP)

Option Break (%VQ)

Control Make (%VR)

Control Break (%VS)

Shift Make (%VT)

Shift Break (%VU)

Apple Make (%VV)

Apple Break (%VW)

Function Code for IBM Terminal

F1 (%VA)

F2 (%VB)

F3 (%VC)

F4 (%VD)

F5 (%VE)

F6 (%VF)

F7 (%VG)

F8 (%VH)

F9 (%VI)

F10 (%VJ)

F11 (%VK)

F12 (%VL)

F13 (%VM)

F14 (%VN)

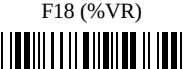
F15 (%VO)

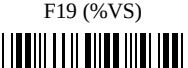
F16 (%VP)

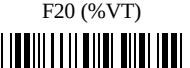
F17 (%VQ)

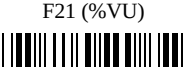
F18 (%VR)

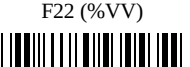
F19 (%VS)


F20 (%VT)


F21 (%VU)


F22 (%VV)


F23 (%VW)


F24 (%VX)

Home (/FA)

End (/FB)

TAB (/FI)

Enter (/FL)

Return (/FM)

Field Exit (/FO)

Field + (/FP)

Field - (/FQ)

RESET (/FV)

Full ASCII Table

NUL (%U)

SOH ($A)

STX ($B)

ETX ($C)

EOT ($D)

ENQ ($E)

ACK ($F)

BEL ($G)

BS ($H)

HT ($I)

LF ($J)

VT ($K)

FF ($L)

CR ($M)

SO ($N)

SI ($O)

DLE ($P)

DC1 ($Q)

DC2 ($R)

DC3 ($S)

DC4 ($T)

NAK ($U)

SYN ($V)

ETB ($W)

CAN ($X)

EM ($Y)

SUB ($Z)

ESC (%A)

FS (%B)

GS (%C)

RS (%D)

US (%E)

SP

! (/A)

” (/B)

(/C)

$

%

& (/F)

’ (/G)

((/H)

) (/I)

* (/J)

+

, (/L)

-

.

/

0

1

2

3

4

5

6

7

8

9

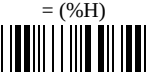
: (/Z)

; (%F)

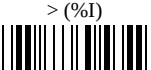
< (%G)

= (%H)

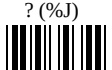
> (%I)



? (%J)



@ (%V)



A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

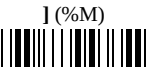
Z

[(%K)

\ (%L)

] (%M)

^ (%N)



_ (%O)

` (%W)

a (+A)

b (+B)

c (+C)

d (+D)

e (+E)

f (+F)

g (+G)

h (+H)

i (+I)

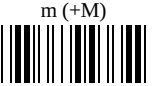
j (+J)

k (+K)

l (+L)

m (+M)

n (+N)



o (+O)

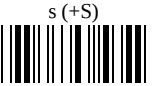
p (+P)

q (+Q)

r (+R)

s (+S)

t (+T)



u (+U)

v (+V)

w (+W)

x (+X)

y (+Y)

z (+Z)

{(%P)

| (%Q)

} (%R)

~ (%S)

DEL (%T)

Test Chart

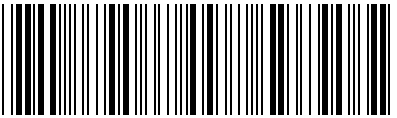
EAN-13

EAN-8

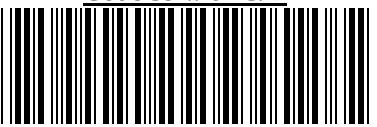
UPC-A

UPC-E

ISBN 957-630-239-0



Code 39 with C/D



Interleaved 2 of 5

Codabar

MSI